Journal no VI Frederick V. Coville

(Sunday) May 10, 1891 We reached Red Rock about 2 A.M. where we changed horses and got a enh of coffee. We reached the sum mit north of Red Rock at about survice, and at nine o'clock in the morning came to Indian Wells. We took brakfast her and charged both horses and driver. at about sig victock in the afternoon we reached Haywood Meadows when we took suffer and charged horses.

May 11, 1891. Keeler, Tryo County, Cal. We reached here this morning at 1:30 A. M. My saddle horse was left at Indian Welle to be brought in by the next stage The distances travelled yesterday and the day before by stage are as follows: Mojave to Red Rock ; Red Rock to Indian Wells Indian Wells to Haywood Meadows ; Hay wood meadows to Keeler Mr. H. E. Willeinson the U. S. Sig. mal Officer here has very kindly while in town.

May 12, 1891.

9 ramained at Keeler to-day
answering correspondence,

May 13, 1891

Keeler, Inyo County, Cal.

I remained of Keeler to-day arranging notes

Way 14, 1891. Keeler, Tryo Co, Cal. I miade a collecting top to-day in the mesa shetween Keeler and Cerro Gordo Wit. The soil is made up of stone broken up so as to be quite small, but little water. worn; and filled and drifted over with sand. The soil is quite alkaline, as indicated by slight deposits in favorable places, and is especially marked as differing from similar mesas in the other valleys by the absence of Larria except for a short distance below the months of the carrows and in the begs of the canon washes. The bushes of Larra in these places aphear very healthy, and flower and fruit profusely. The following plants were

seen in addition to a few others collected alt. 3650 \$ 3700 ft. . Distichlis mantina to 1/28-m. . atriples confertifolia Suacda suffortescens Cleone sparsifolia Cleonella obtusifolia Gilia leptomeria Oenothera scapoidea purpurascens Oenothera gariroeflora atriples paryi Franseria dumosa Sarcobatus vermiculatus Biscutella californica Krynitykia circumscissa Enogonum resistance malacothrip sonchoides Oenothera briviles . Lefidium franctii Oryzofisis cuspidata · Encelia errocephala

neath. On the margin of this strip farthest from the water there is an abundant growth of Distichlis maritima, scantily mixed in some places with other small herbs. In the densest soda deposite the salt-grass cannot grow how-. ever and a large part of the lake -shore is therefore wh terly devoid of vegetation. In many places, however, springs of forsh, or nearly fresh, water come up along the beach; and these are surrounded by growths of tules (Scirpus Joungens, S. olneys, and rarrly, at this part of the lake, S. lacustris occidentalie) andrushes (Juneus mep In the salt-grass, which extends backward into looser less alkaline sand are commonly found

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accompanied by

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Surcobatus verniculatus

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June 18, 1891

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July 11, 1891.

Tijon Ranch, Kern County, Cal.

We left Tijon Fort this morning at about half past ten, and went down Carrada de las Moss to the Tulars

Plains, following the direct roaf to Rose's Station. From that froint we turned to the right and proceeded to Tijon Ranch.

of your form to the

The second

while y plant in many with it

More the bottom of Canada de lase
Moras the oaks become scattered and
finally disappear entirely. The ground
is covered, in most places sparingly,
with dried grass; while the only should
seen was Jaonesia arbora. In the
carron, along the stram, occur besides the rake, Negundo californica, Vitis

californica, <u>Populus</u> monilifera, <u>Platanus</u> race-The plain itself is an even gentle slope, at this part of it, sparingby covered with grass and singularly devoid of shrubbery. The few shrubs that do occur with the identifiable, plants that are characteristic are Helianthus annues, Croton californicum, Grindelia , Eremocarfius setigerne, Mirabilis multiflora fembescens? In the vicinity of Jejon Ranch others are large groves of white our Quercus lobata); and along the crish that flows past it are cottonwoods (Populus monilifera) and dense masses of wild grapes (Vitis californica), 1 th climbing the trees and trailing over its lanks and forming hummocks three or feet high.

Sunday) July 12, 1891.

Tyon Ranch, Kern County, Cal.

Mr. Palmer and I rode to day to Tyon Pass

Following up the canon that Jurnishes water

for Tyon anch, and ascending one of the

A few prisons (Pinus monophylla) occur with Pinus to alle below the yellow pines.

higher divides. An old wagon-roughtends to within about a half-mile of the summit, and beyond this point the iscent is altogether too steep for a road.

the lower end of the common the common the common the common the some of them attaining a diameter of more than a foot, Platanus racemosa, Pohulus mon ilifera, P. trichocarpa. With these are found a few trees of cedar Liboledous decurrus.

at 3000 ft (computed), Pinus contra called begins and soon becomes here Digger pine or bull pine, a abundant.

At an altitude of about pt artemisia tridentata begins and continues to be the most characteristic shrub up to about the summit of the divide.

The next you is that of Pinus pondensa. It contains also as a characteristic tree this concolor, and higher up Pinus lambertiona.

Two easily distinguishable forms of Pinus pondersea occur, one at a lower altitude, a tall large tree, lanceslate or triangular lanceslate in outling with an acute top, and small comes with their narrow scales. One of the larger tree

oas 16 ft 7 in in & circumference. The other form grows at a higher altitude (from the summit to about their hundred feet below), and is a smaller tors with usually oblong outline and a sounded top capparently due to the continued tendency of the uppermost shoots to be broken by the wind, and a much larger beaver comes This latter form is the same seen on Fragier Mountain and appears to be the true Pinus ponderoea The comfunted attitude of the summit that we reached is 5-800 ft. From this point we could look down whom the western part of the Mojave Desert in the direction of Willow Spring. Neither Mojave Butte nor the mountains south of artelope Valley could be seen. We descended by the same route. The altitude of Tejon ranch was called 1450

July 13, 1891.

Be peralield, Kern County, Cal.

We left Tejon ranch this morning and took the direct road from there to Bakers-

field, going into camp about a quarter-mile north of the town.

The road across the plains is very level and hard, in some places somewhat dusty and with but a mile or two of sand. There are no trees until me afthroaches Bakersfield, where they occur along the ditches and strams.

The higher portions of the plain, near Tijon ranch, are characterized by the same plants mentioned in the journal for the 1th inst. with the addition of asclepiase erasa.

The lower postions are minister and somewhat alkaline and are characterized in various parts by Atrifley folyearpa, Distichlie maritima, & Salicornia ambigua, Spirostachye occidentalis, Sporobolus aixoides, Suaeda suffritescens,
Suaeda and Frankenia grandifolia.

ranch was characterized by the presence of Chunting

at Bakersfuld we met Dr. + Ulra. Morriam + the baby. Dr. Merriam has been ordered to the Pribilor Islands and leaves for Visalia fate

July 14, 1891.

Bakersfield, Kern County, Cal.

I remained in camp to-day making notes and catalogueing plants. Mr. Palmer has gone to San Francisco with Dr. Merriam.

July 16, 1891.

Poso, Kenn County, Cal.

Beth and I, with Me Grath, left for this point to-day.

The teamster was misdirected as to the road and shortly before moon we reached Poso Station, on the Glenville stage line. We therefore turned down the bed of the exist for two or three miles at which point we came whom the old road along Poso Crick. This we followed for three or four miles more often which it turned northward from the crick to the station Poso on the Southern Raife R. R. The entire distance from Poso Station to Poso is about 14 miles. We went into early at Poso.

The road from Bakersfield to Paso Station after crossing the Kern River bridge lies over

dry clay foothills almost entirely bare except for the now dead and closely grazed annual vegetation.

Some of the washes contain a leafless and seemingly dead shrub, and the only other seast vegetation is asolephas errora, Errmocarfus setigerus brindelia, Ofuntia, and adjutata.

In the vicinity of Poso Station were seen also I somerie arbora, atriples carescens; Mirabilis multiflora pubescens

Poso Crech itself is at this season quite dry, and its bed is filled with a fine very yielding sand. The fall of the stream is very gentle, and no gravel is carried along in it. The tros along its banks are cotton-words (Populus monitifera) and willow (Salip nigna) and sycamores (Platamus recemosa)

The plains beside foso Crech are the same

Many ranches through this orgion are de sested.

The divide between Bakensfild and Poso Station is about eight hundred feet higher than Bakersfield.

an vegetation as those described.

Near Tipton, County, Cal.

We left Poso this morning and proceeded along the railroad to this point, camping by a ranch on the bank of Tule River, about 11/2 miles north of Tipton.

The country traversed is a dry, hot, clay plain, and like that seen yesterday is devoted to the raising of barley and to grazing. There is such a scarcity of water that fruit and alfalfa can scarcily be grown.

Tule River is dry and bears along its banks a few white July 17 oaks (Quercus lobata) and sycamore.

July 17, 1891.

Visalia, Tulare County, Cal.

We continued this morning along the railroad to Tular and then followed the motor road to Visalia, reaching her about eleven A.M.

about eleven A.M. Suercus lobata

On we approached Tulan, white oaks the
came frequent in the fields and there was

every evidence of a moister soil. Fruit is grute generally cultivated, and alfalfa fields as well us borly became numerous.

Between Inlan and Visilia all the land is fericed, and devoted to agricultural presposes as moted above. The natural pastures are pasticular maritime of sast-grassy with a little Juncus mexicame intermined.

We went into camp about a mile and a half north and slightly least from the town on a ranch worked by Mr.

July 18, 1891.
Visalia, Tular County, Cal.

I went to town this morning and this
oftenoon wrote up notes and catalogue.

(Sunday) July 19, 1891
Visalia, Tulare County, Col.

Beth and I went to church this morning,
and in the afternoon remained in camp.

July 20, 1891.

Visalia, Bulara County, Cal.

I went collecting this morning along the road as far as the river, northward from cath about a half-mile. In the afternoon I catalogued specimens and later went to town.

July 21, 1891

Visalia, Tulare County, Cal.

I collected a few plants to day near the camp, and spent the rest of the day cataloguing and writing notes

July 21 to 24, 1891.

Visalia, Tulara County, Cal.

These days were occupied in outfitting for the not whitney expedition. Mr. Bailey, with Dr. Fisher, arrived from Bakersfild and Mr. Palmer from San-Francisco.

July 25, 1891.

Three Rivere, Tulan Co., Cal.

We left Visalia this morning, Bailey, Beth, and myself, with two backers, and perocular

by the rigular Mineral King road to this foint.

Until we rached the foot-hills the vegetation

was similar to that about Visalia. In the first foothills Quercus Louglasii began. Three Rivers lies at

about ft, according to Mr. Bailey, above Visalia.

I was thrown from my horse, and my an
eroid damaged, just before lunch.

(Sunday) July 26, 1491 Comes Flats, Tulan Co., Cal.

We left Three Rivers this afternoon at about I sclock, after a portion of the forenoon had been spent collecting about Kawah River officite, or a short distance below, Three Rivers. This place is, according to Mr. Baily, about I higher than Visalia.

July 27, 1891.

First Sequoia camp, Mineral King Road,

We reached this place this afternoon and

went into camp by the stream that flows

down the carron into Karvesh River. Here I

saw for the first time Sequoia gigantea.

July 28, 1891 First Segmoia camp.

To-day Mr. Bailey and I went down the road about 3/4 mile to a hog- back with an old house one it, and turned down the steep slope through the chapparal to the river, descending about 1000 ft below camp to the month of the stram that flows by it. We retraced our steps by meanly the same route. In the afternoon I remained at camp cataloguing specimens.

July 29, 1891.

Mill caref, Mineral King Roaf,

We left caref soon after lunch to-day.

I shout the formore collecting in the caron

mear caref to an altitude of 200 ft above

it. after lunch we proceeded to this point about 1/2 mile above the saw-mill

July 30, 1891.

Mineral King, Tular Co., Cal.

This morning I cat alogued specimens and

collected a few things about camp. at

about there o'clock we left camp and

and proceeded to Mineral King, camping about 1/2 mile above the old hotil, on the south bank of the stram under some evergrans.

+ fination more coplet



